# FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)

#### OFFICE OF AIR QUALITY

#### Norfolk Southern Railway Company Route 19 and Lusher Avenue, Elkhart, Indiana 46515

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

| Operation Permit No.: F039-12839-00548                               |                                 |  |  |
|--|---------------------------------|--|--|
| Issued by:<br>Paul Dubenetzky, Branch Chief<br>Office of Air Quality | Issuance Date: Expiration Date: |  |  |

Permit Reviewer: GS

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#### **Stratospheric Ozone Protection**

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Six diesel fueled Emergency Generators

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Certification Form
Emergency Occurrence Form
Quarterly Report Form
Quarterly Deviation and Compliance Monitoring Report Form

#### SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

#### A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a Rail classification yard and diesel terminal.

Authorized individual: Robert H.Raber

Source Address: Route 19 and Lusher Avenue, Elkhart, Indiana 46515
Mailing Address: Route 19 and Lusher Avenue, Elkhart, Indiana 46515

SIC Code: 4013

Source Location Status: Elkhart

County Status: Maintenance for Ozone

Attainment for all other criteria pollutants

Source Status: Federally Enforceable State Operating Permit (FESOP)

Minor Source, under PSD or Emission Offset Rules; Minor Source, Section 112 of the Clean Air Act

#### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source source consists of the following emission units and pollution control devices:

- (a) Two (2) diesel fuel storage tanks, identified as 3400, 3401, constructed in 1988, 1957, with maximum capacity of 750,000 and 330,000 gallons, exhausting to stacks V002 and V001 respectively.
- (b) Two (2) diesel fuel storage tanks, constructed in 2000, with a maximum capacity of 1,000,000 gallons each, exhausting to stacks V003 and V004 respectively.
- (c) Two (2) sand hoppers, identified as 3407 and 3412, with maximum capacity of 1,259 tons per year each.
- (d) Five (5) fuel oil fired furnaces, identified as 3459, 3467, 3462, 3465 and 3460 with maximum capacity of 1.9, 0.77, 0.1, 0.53 and 0.77 MMBtu per hour respectively.
- (e) Five (5) fuel oil fired portable furnaces, with maximum capacity of 0.6, 0.6, 0.6, 0.05 and 0.05 MMBtu per hour.
- (f) Six (6) emergency diesel generator sets, with maximum capacity of 150,100,100, 230, 60 and 320 Kilowatt hour.
- (g) Three (3) distillate oil fired boilers, identified as 3455, 3456, and 3457, with a maximum rated capacity of 2.678 million British thermal units per hour, exhausting to stacks S001, S002 and S003 respectively.

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#### A.3 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

#### A.4 Prior Permit Conditions

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued.

#### SECTION B GENERAL CONDITIONS

#### B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

#### B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

#### B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

#### B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

#### B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

#### B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

#### B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

### B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit or,

for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]

(c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

#### B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

#### B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, is grounds for:
  - (1) Enforcement action;
  - (2) Permit termination, revocation and reissuance, or modification; and
  - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

#### B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

#### B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015 Norfolk Southern Railway Company
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(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ,

- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification:
  - (2) The compliance status:

on or before the date it is due.

- (3) Whether compliance was continuous or intermittent;
- (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
- (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

#### B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

The PMP and the PMP extension notification do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM,

OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

#### B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered:

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance

Section) or,

Telephone No.: 317-233-5674 (ask for Compliance Section)

Facsimile No.: 317-233-5967

Northern Regional Office: Telephone No.: 219-245-4870 Facsimile No.: 219-245-4877

Failure to notify IDEM, OAQ by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

> Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
  - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

#### B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report.

The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
  - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
  - (2) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

(c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

### B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ (or local agency when applicable) determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

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- (c) Proceedings by IDEM, OAQ (or local agency when applicable), to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

#### B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
  - (1) A timely renewal application is one that is:
    - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
    - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
  - (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9] If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as needed to process the application.

#### B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

#### B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
  - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
  - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J) 77 West Jackson Boulevard Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.
  - Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).
- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:
  - (1) A brief description of the change within the source;

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Norfolk Southern Railway Company Elkhart, Indiana Permit Reviewer: GS

- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]
  The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)] The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

#### B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed 326 IAC 2 and 326 IAC 2-8-11.1.

#### B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

#### B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

> Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

#### B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

#### SECTION C SOURCE OPERATION CONDITIONS

#### **Entire Source**

#### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

#### C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source-s potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
  - (1) The potential to emit any regulated pollutant from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable
  - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
  - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source-s potential to emit does not exceed the above specified limits.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

#### C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

#### C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

#### C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit vented to the control equipment is in operation.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management Asbestos Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC
14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are
applicable for any removal or disturbance of RACM greater than three (3) linear feet on
pipes or three (3) square feet on any other facility components or a total of at least 0.75
cubic feet on all facility components.

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator,
prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to
thoroughly inspect the affected portion of the facility for the presence of asbestos. The
requirement that the inspector be accredited is federally enforceable.

#### Testing Requirements [326 IAC 2-8-4(3)]

#### C.8 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

#### Compliance Requirements [326 IAC 2-1.1-11]

#### C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

#### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### C.10 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule with full justification of the reasons for inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

#### C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

#### Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### C.12 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

## C.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C -Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

#### C.14 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

(a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6. This annual statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year). The annual statement must be submitted to:

Indiana Department of Environmental Management Technical Support and Modeling Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

#### C.15 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

#### C.16 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period.

The report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

#### **Stratospheric Ozone Protection**

#### C.17 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

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Permit Reviewer: GS

#### SECTION D.1

#### **FACILITY OPERATION CONDITIONS**

#### Facility Description [326 IAC 2-8-4(10)]:

- (a) Two (2) diesel fuel storage tanks, identified as 3400, 3401, with a maximum capacity of 750,000 and 330,000 gallons, exhausting to stacks V002 and V001 respectively.
- (b) Two (2) diesel fuel storage tanks, with a maximum capacity of 1,000,000 gallons, exhausting to stacks V003 and V004 respectively.
- (c) Two (2) sand hoppers, identified as 3407 and 3412, with maximum capacity of 1,259 tons per year each.
- (d) Five (5) fuel oil fired furnaces, identified as 3459, 3467, 3462, 3465 and 3460 with maximum capacity of 1.9, 0.77, 0.1, 0.53 and 0.77 MMBtu per hour respectively.
- (e) Five (5) fuel oil fired portable furnaces with maximum capacity of 0.6, 0.6, 0.6, 0.05 and 0.05 MMBtu per hour.
- (f) Six (6) emergency diesel generator sets with maximum capacity of 150,100,100, 230, 60 and 320 Kilowatt hour.
- (g) Three (3) distillate oil fired boilers, identified as 3455, 3456, and 3457, with a maximum rated capacity of 2.678 million British thermal units per hour, exhausting to stacks S001, S002 and S003 respectively.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 FESOP Permit Content [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the annual hours of operation for the emergency diesel generators shall be limited to less than 8169 hours per 12 consecutive months period, rolled on a monthly basis. This will limit the emergency diesel generators to less than 89.9 tons of NOx emissions per year. This same limit, plus other combustion units (unlimited), will limit the NOx emissions from the entire source to less than one hundred (100) tons per year and makes rule 326 IAC 2-7 not applicable.

D.1.2 Particulate Matter Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from either of the three 2.678 MMBtu per hour heat input Boilers shall not exceed 0.6 pounds per MMBtu heat input.

#### Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

#### D.1.3 40 CFR Part 60.116b, Subpart Kb Record Keeping Requirements (Storage Vessels)

Pursuant to 40 CFR Part 60.116, Subpart Kb, the Permittee shall keep readily accessible records showing the dimensions of the storage vessels and an analysis showing the capacities of the storage vessels.

#### D.1.4 Record Keeping Requirements

(a) To document compliance with Condition D.1.1, the Permittee shall maintain records of hours of operation for the six emergency diesel generators. These records shall be taken monthly and shall be complete and sufficient to establish compliance with the NOx emission limit established in Condition D.1.1.

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Norfolk Southern Railway Company Elkhart, Indiana Permit Reviewer: Gurinder Saini

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.5 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1 and D.1.3 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1-1(1).

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Norfolk Southern Railway Company Elkhart, Indiana Permit Reviewer: Gurinder Saini

#### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT **OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION**

#### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) **CERTIFICATION**

Norfolk Southern Railway Company Source Name:

Route 19 and Lusher Avenue, Elkhart, Indiana 46515 Source Address:

|      | ing Address:<br>OP No.: | Route 19 and Lusher Avenue, Elkhart, Indiana 46515<br>F039-12839-00548   |    |
|------|-------------------------|--|----|
|      | This certification      | shall be included when submitting monitoring, testing reports/results or other documents as required by this permit. |    |
|      | Please check wha        | at document is being certified:  |    |
| 9    | Annual Compliand        | ce Certification Letter  |    |
| 9    | Test Result (spec       | ify)   |    |
| 9    | Report (specify)        |  |    |
| 9    | Notification (spec      | ify)   |    |
| 9    | Affidavit (specify)     |  |    |
| 9    | Other (specify)         |  |    |
|      |                         | on information and belief formed after reasonable inquiry, the statements anument are true, accurate, and complete.  | nd |
| Sig  | nature:                 |  |    |
| Pri  | nted Name:              |  |    |
| Titl | e/Position:             |  |    |
| Dat  | te:                     |  |    |

Norfolk Southern Railway Company Elkhart, Indiana

Permit Reviewer: Gurinder Saini

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# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) EMERGENCY OCCURRENCE REPORT

Source Name: Norfolk Southern Railway Company

Source Address: Route 19 and Lusher Avenue, Elkhart, Indiana 46515 Mailing Address: Route 19 and Lusher Avenue, Elkhart, Indiana 46515

FESOP No.: F039-12839-00548

#### This form consists of 2 pages

Page 1 of 2

9 This is an emergency as defined in 326 IAC 2-7-1(12) CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-

800-451-6027 or 317-233-5674, ask for Compliance Section); and

CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile

Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

| Facility/Equipment/Operation:                       |
|---|
| Control Equipment:                                  |
| Permit Condition or Operation Limitation in Permit: |
| Description of the Emergency:                       |
| Describe the cause of the Emergency:                |

#### If any of the following are not applicable, mark N/A

Page 2 of 2

| , , , , , , , , , , , , , , , , , , ,   |
|---|
| Date/Time Emergency started:  |
| Date/Time Emergency was corrected:  |
| Was the facility being properly operated at the time of the emergency? Y N Describe:  |
| Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>X</sub> , CO, Pb, other:   |
| Estimated amount of pollutant(s) emitted during emergency:  |
| Describe the steps taken to mitigate the problem:   |
| Describe the corrective actions/response steps taken:   |
| Describe the measures taken to minimize emissions:  |
| If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value: |
| Form Completed by: Title / Position: Date: Phone:   |

A certification is not required for this report.

Norfolk Southern Railway Company Elkhart, Indiana

Phone:

OP No. F039-12839-00548 Permit Reviewer: Gurinder Saini

#### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT **OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION**

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|  | FESOP   | Quarterly Report   |                           |
|--|---|--|---------------------------|
| Source Name: Source Address: Mailing Address: FESOP No.: Facility: Parameter: Limit: YEAR: | Route 19 and Lusher Ave<br>F039-12839-00548<br>Six Emergency Diesel Ge<br>kilowatt-hour<br>NOx<br>Hours of operation over a | y Company<br>enue, Elkhart, Indiana 46515<br>enue, Elkhart, Indiana 46515<br>enerators rated at 150, 100,<br>a 12 months period is limited | 5<br>100, 230, 60 and 320 |
|  | Column 1  | Column 2   | Column 1 + Column 2       |
| Month  | Hours (this Month)  | Hours (previous 11<br>Months)  | 12 Month Total            |
| Month 1  |   |  |                           |
| Month 2  |   |  |                           |
| Month 3  |   |  |                           |
| Titl   | e / Position:<br> nature:   | nis quarter.   |                           |

Attach a signed certification to complete this report.

Norfolk Southern Railway Company Elkhart, Indiana

Permit Reviewer: Gurinder Saini

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# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Norfolk Southern Railway Company
Source Address: Route 19 and Lusher Avenue, Elkhart, Indiana 46515
Hailing Address: FESOP No.: F039-12839-00548

| FESOP No.:  | F039-12839-  | -00548             |                       |             |  |
|---|--|--------------------|-----------------------|-------------|--|
|   | Months:  | to                 | Year:                 |             |  |
|   |  |                    |                       | Page 1 of 2 |  |
| report shall be<br>the date(s) of e<br>be reported. De<br>reported accordincluded in this | This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period". |                    |                       |             |  |
| 9 NO DEVIATI  | ONS OCCURRE  | D THIS REPORTIN    | NG PERIOD.            |             |  |
| 9 THE FOLLO   | WING DEVIATIO  | NS OCCURRED T      | HIS REPORTING PERI    | OD          |  |
| Permit Require  | ement (specify po  | ermit condition #) |                       |             |  |
| Date of Deviat  | Date of Deviation: Duration of Deviation:  |                    |                       |             |  |
| Number of Dev   | Number of Deviations:  |                    |                       |             |  |
| Probable Caus   | Probable Cause of Deviation:   |                    |                       |             |  |
| Response Ste  | Response Steps Taken:  |                    |                       |             |  |
| Permit Require  | ement (specify p   | ermit condition #) |                       |             |  |
| Date of Deviat  | ion:   |                    | Duration of Deviation | 1:          |  |
| Number of Deviations:   |  |                    |                       |             |  |
| Probable Cause of Deviation:  |  |                    |                       |             |  |
| Response Steps Taken:   |  |                    |                       |             |  |

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Page 2 of 2

|   | . ago 2 oi 2           |
|---|------------------------|
| Permit Requirement (specify permit condition #) |                        |
| Date of Deviation:                              | Duration of Deviation: |
| Number of Deviations:                           |                        |
| Probable Cause of Deviation:                    |                        |
| Response Steps Taken:                           |                        |
| Permit Requirement (specify permit condition #) |                        |
| Date of Deviation:                              | Duration of Deviation: |
| Number of Deviations:                           |                        |
| Probable Cause of Deviation:                    |                        |
| Response Steps Taken:                           |                        |
| Permit Requirement (specify permit condition #) |                        |
| Date of Deviation:                              | Duration of Deviation: |
| Number of Deviations:                           |                        |
| Probable Cause of Deviation:                    |                        |
| Response Steps Taken:                           |                        |
| Form Completed By:                              |                        |
| Title/Position:                                 |                        |
| Date:   |                        |
| Phone:  |                        |

Attach a signed certification to complete this report.

# Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Federally Enforceable Operating Permit (FESOP)

#### **Source Background and Description**

Source Name: Norfolk Southern Railway Company

Source Location: Route 19 and Lusher Avenue, Elkhart, IN 46515

County: Elkhart SIC Code: 4013

Operation Permit No.: 039-12839-00548 Permit Reviewer: Gurinder Saini

The Office of Air Quality (OAQ) has reviewed a FESOP application from Norfolk Southern Railway Company relating to the construction and operation of Rail classification yard and diesel terminal.

#### **Permitted Emission Units and Pollution Control Equipment**

- (a) Two (2) diesel fuel storage tanks, identified as 3400, 3401, with a maximum capacity of 750,000 and 330,000 gallons, exhausting to stacks V002 and V001 respectively.
- (b) Two (2) diesel fuel storage tanks, with a maximum capacity of 1,000,000 gallons, exhausting to stacks V003 and V004 respectively.
- (c) Two (2) sand hoppers, identified as 3407 and 3412, with maximum capacity of 1,259 tons per year each.
- (d) Five (5) fuel oil fired furnaces, identified as 3459, 3467, 3462, 3465 and 3460 with maximum capacity of 1.9, 0.77, 0.1, 0.53 and 0.77 MMBtu per hour respectively.
- (e) Five (5) fuel oil fired portable furnaces with maximum capacity of 0.6, 0.6, 0.6, 0.05 and 0.05 MMBtu per hour.

(Note: The emission units above have potential emissions below the threshold requiring permit and thereby are classified as exempt)

#### **Unpermitted Emission Units and Pollution Control Equipment**

The source also consists of the following unpermitted facilities/units:

- (a) Six (6) emergency diesel generator sets with maximum capacity of 150,100,100, 230, 60 and 320 Kilowatt hour.
- (b) Three (3) distillate oil fired boilers, identified as 3455, 3456, and 3457, with a maximum rated capacity of 2.678 million British thermal units per hour, exhausting to stacks S001, S002 and S003 respectively.

#### **Existing Approvals**

This is the first air permit application from this source.

#### **Enforcement Issue**

- (a) IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled *Unpermitted Emission Units and Pollution Control Equipment*.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

#### **Stack Summary**

| Stack ID | Operation              | Height<br>(feet) | Diameter<br>(feet) | Flow Rate (acfm) | Temperature<br>(°F) |
|----------|------------------------|------------------|--------------------|------------------|---------------------|
| S001     | Boiler 3455            | 30               | 1.17               | 700              | 650                 |
| S002     | Boiler 3456            | 30               | 1.17               | 700              | 650                 |
| S003     | Boiler 3457            | 30               | 1.17               | 700              | 650                 |
| V001     | 330,000 gal<br>storage | 40.75            | 0.25               | Negligible       | Ambient             |
| V002     | 750,000 gal<br>storage | 34               | 0.25               | Negligible       | Ambient             |
| V003     | 1 million gal storage  | 41               | 0.25               | Negligible       | Ambient             |
| V004     | 1 million gal storage  | 41               | 0.25               | Negligible       | Ambient             |

#### Recommendation

The staff recommends to the Commissioner that the FESOP be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP application for the purposes of this review was received on October 16, 2000.

#### **Emission Calculations**

See Appendix A page 1 through 6 of this document for detailed emissions calculations.

#### Potential To Emit for the Source

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as Athe maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.@

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

| Pollutant       | Potential To Emit (tons/year) |
|-----------------|-------------------------------|
| PM              | 12.92                         |
| PM-10           | 12.92                         |
| SO <sub>2</sub> | 43.48                         |
| VOC             | 8.58                          |
| СО              | 23.39                         |
| NO <sub>x</sub> | 106.56                        |

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of NOx is greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source has agreed to limit NOx emission to less than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-8.
- (b) Fugitive Emissions
  Since this type of operation is not one of the twenty-eight (28) listed source categories
  under 326 IAC 2-2 and since there are no applicable New Source Performance Standards
  that were in effect on August 7, 1980, the fugitive emissions are not counted toward
  determination of PSD and Emission Offset applicability.

#### **Potential to Emit After Issuance**

(1) The source has accepted a source-wide limit of less than 100 tons per year for NOx emissions.

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Federally Enforceable State Operating Permit.

|                                | Potential to Emit<br>(tons/year) |       |                 |      |       |                 |      |
|--------------------------------|----------------------------------|-------|-----------------|------|-------|-----------------|------|
| Process/facility               | PM                               | PM-10 | SO <sub>2</sub> | VOC  | СО    | NO <sub>X</sub> | HAPs |
| Tanks                          | -                                | 1     | -               | 0.56 | -     | -               | -    |
| Boilers                        | 1.8                              | 1.8   | 18.9            | 0.1  | 1.3   | 5               | -    |
| Hoppers                        | 3.77                             | 3.77  | ı               | ı    | ı     | -               | -    |
| Emergency Diesel<br>Generators | 6.38                             | 6.38  | 5.95            | 7.29 | 19.38 | <89.9           | -    |
| Other Units                    | 0.5                              | 0.5   | 18.2            | 0.1  | 1.3   | 5.1             | -    |
| Total Emissions                | 12.45                            | 12.45 | 43.05           | 8.05 | 21.98 | <100            |      |

For the Emergency Diesel Generators, the criteria pollutant emissions are reduced based on limiting the NOx emissions to less than 89.9 tons per year. Based on the reduced NOx emissions, the maximum hours of operation for these generators are calculated as follows:

Hours of operation (Hour per year)

= 
$$\frac{\text{NOx emissions (tons)}}{\text{(Year)}} \times \frac{2000 \text{ (pounds)}}{\text{(ton)}} \times \frac{\text{(hp-hour)}}{\text{Emission Factor NOx (pounds)}} \times \frac{1}{\text{(hp)}}$$

= 8169 hours per year

The reduced emissions are calculated based on limited maximum hours of operation for the Emergency Diesel Generators.

#### **County Attainment Status**

The source is located in Elkhart County.

| Pollutant       | Status (attainment, maintenance<br>attainment or unclassifiable;<br>severe, moderate, marginal, or<br>nonattainment) |
|-----------------|--|
| PM-10           | Attainment   |
| SO <sub>2</sub> | Attainment   |
| NO <sub>2</sub> | Attainment   |
| Ozone           | Maintenance  |
| СО              | Attainment   |
| Lead            | Attainment   |

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NOx) are precursors for the formation of ozone. Therefore, VOC and NO<sub>X</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. Elkhart County has been designated as maintenance for ozone.

#### **Federal Rule Applicability**

(a) The three diesel storage tanks of 1,000,000, 1,000,000 and 750,000 gallons capacities are subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.116b, Subpart Kb) because their storage capacities are more than 151 m3 (39,890 gallons) with true vapor pressure less than 3.5 kPa. According to this NSPS:

The owner or operator of each storage vessel subject to this subpart, shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

The fourth tank with a storage capacity of 330,000 is not subject to NSPS, because it was constructed in 1957.

- (b) The boilers at this plant are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40c, Subpart Dc), because the maximum heat input capacity is less than 10 million Btu per hour.
- (c) There are no other New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.

(d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

#### State Rule Applicability - Entire Source

#### 326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than ten (10) tons per year of NOx. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

#### 326 IAC 5-1 (Visible Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### State Rule Applicability - Individual Facilities

#### 326 IAC 2-8-4 (FESOP Permit Content)

Pursuant to 326 IAC 2-8-4, the annual hours of operation for the six (6) emergency diesel generator sets shall be limited to less than 8169 hours per 12 consecutive months period, rolled on a monthly basis. This will limit the NOx emissions from the entire source to less than one hundred (100) tons per year and makes rule 326 IAC 2-7 not applicable.

This limit is calculated as shown in the Potential to Emit After Issuance section of this TSD.

#### 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating)

The sources of indirect heating at this plant location are subject to this rule. Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from either of the three distillate oil fired boilers rated at 2.678 MMBtu per hour heat input shall not exceed either 0.6 pounds per MMBtu heat input or the limit based on following equation whichever is less:

Pt = 
$$\frac{1.09}{Q^{0.26}}$$
  
Where Pt =

where Pt = Q=

Pounds of particulate matter emitted per million Btu heat input. Total source maximum operating capacity rating in million Btu per hour heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit in which case, the capacity specified in the operation permit shall be used.

Pt= 0.84 pounds per MMBtu heat input.

Therefore, 0.6 pounds per MMBtu heat input will be the limit for PM emissions from either of 2.678 MMBtu per hour boilers

#### **Compliance Requirements**

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source-s failure to take the appropriate corrective actions within a specific time period.

#### Conclusion

The operation of this Rail classification yard and diesel terminal shall be subject to the conditions of the attached proposed FESOP No.: F039-12839-00548.

# Indiana Department of Environmental Management Office of Air Quality

An addendum to the Technical Support Document for Federally Enforceable State Operating Permit (FESOP)

#### **Source Background and Description**

Source Name: Norfolk Southern Railway Company

Source Location: Route 19 and Lusher Avenue, Elkhart, IN 46515

County: Elkhart SIC Code: 4013

Operation Permit No.: 039-12839-00548 Permit Reviewer: Gurinder Saini

On February 5, 2001, the Office of Air Quality (OAQ) had a notice published in the Elkhart Truth, Elkhart, Indiana, stating that Norfolk Southern Railway Company had applied for a Federally Enforceable State Operating Permit (FESOP) to operate Rail classification yard and diesel terminals. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On March 07, 2001, Clean Inc. submitted comments on the proposed FESOP. The comments and the IDEM responses are as follows:

#### Comment 1:

The Clean Inc. has stated in their letter that construction and placement of additional storage tanks at the rail yard will only increase the potential for impacts to the local environment. There have been several documented releases to the groundwater and to the St.Joseph River from this site. The potential air emissions from this operation would increase the risk of adverse impacts to human health.

#### Response 1:

The OAQ, IDEM has carried out detailed examination of potential air emissions of Volatile Organic Compounds (VOC) from the diesel storage tanks at this site. It has been determined that maximum annual breathing and working losses of VOCs from these tanks will be less than 1 ton. The potential air emissions from these tanks pose minimal threat to the environment and human health. The OAQ, IDEM does not have authority on location of these tanks because air pollution control rules do not regulate plant location decisions. Local governments have jurisdiction on zoning issues.

Norfolk Southern Railway Company Elkhart, Indiana

Permit Reviewer: GS

Page 2 of 2 FESOP 039-12839-000548

#### Comment 2:

The Elkhart County and St.Joseph County Health Departments, along with the Agency for Toxic Substances and Disease Registry are conducting a health survey of residents within the Superfund Site. There have been a number of complaints related to health issues by residents. Residents have been exposed to chemicals related to degreasing solvents and fuel related solvents. There has been contamination of drinking water sources and vapors have been detected in the basements of homes.

#### Response 2:

The Conrail Superfund site project is coordinated by the Environmental Protection Agency. The Remedial Project Manager for this project is Brad Bradley. He is available at (312) 886-4742. At IDEM, the contact person is Kevin Herron with the Office of Land Quality at (317) 234-0354. Respective agencies at federal, state and local level are making efforts to alleviate effects of past contamination. This permit is limited in scope to the impacts of air emission from the equipment covered in Section A of the permit.

#### Comment 3:

There will be a remedial effort which will involve construction of groundwater withdrawal wells. The design phase of this effort is expected to continue till next year. It is expected that carbon adsorption or other similar technique will be utilized for this remediation effort. This will cause further increases in potential air emissions from this source.

#### Response 3:

The clean-up is a Superfund project. The Superfund projects are exempt from obtaining state air permits. Instead, the project is required to meet any relevant applicable requirements from the state rules. Therefore, this would be equivalent to them following any rules that apply although they would not have a permit. Additionally, the Superfund has a separate process for public input on remediation.

#### Comment 4:

The Clean Inc. President Michael Fitch has made following comments:

- The impact of air pollution in the area cannot be based solely on Norfolk Rail Yards.
   There is extensive air pollution in the area from Elpaco Paints which exhaust fumes which can cause watery eyes to the folks driving past on old US 33.
- 2. Residents to the north and west of the rail yards have complained about soot which regularly accumulates on their houses. Could the railroad be in violation of "fugitive dust" condition mentioned on page 17 of 29?

#### Response 4:

- The Office of Air Quality (OAQ) reviews each permit application to ensure that issuance of a permit will not result in a violation of any state or federal air regulations and standards. The Elpaco Coating Corporation located at 28867 US Highway 33, Elkhart, Indiana 46516 has a Part 70 Operating Permit No.: T 039-8940-00248. At the time that permit was issued Elpaco complied with all applicable air pollution control requirements. Elpaco will be inspected by the OAQ inspector to check if it is in violation of any state rule. The Elpaco plant was inspected by OAQ inspector on February 08, 2000 and was found to be in compliance with all applicable requirements at that time.
- 2. A source violates this rule when visible fugitive dust emissions are observed crossing the boundary of the Source boundary. Any complaint in this regard can be forwarded to the Air Inspector Greg Wingstorm at 219-245-4870.

## Appendix A: Emission Calculations Summary of PTE

Company Name: Norfolk Southern Railway Company

Address City IN Zip: Route 19 and Lusher Avenue, Elkhart, IN 46515

CP#: 039-12839
Plt ID: 039-00548
Reviewer: Gurinder Saini

**Date: October 20, 2000** 

#### Potential to Emit (Tons/Year)

| <b>Activity Type</b> | PM    | PM-10 | SO2   | VOC    | СО    | NOx    | HAP | HAPS |
|----------------------|-------|-------|-------|--------|-------|--------|-----|------|
| Tanks                |       |       |       | 0.5576 |       |        |     |      |
| Boilers              | 1.8   | 1.8   | 18.9  | 0.1    | 1.3   | 5      |     |      |
| Hoppers              | 3.77  | 3.77  |       |        |       |        |     |      |
| Diesel Engines       | 6.85  | 6.85  | 6.38  | 7.82   | 20.79 | 96.46  |     |      |
| Other units          | 0.5   | 0.5   | 18.2  | 0.1    | 1.3   | 5.1    |     |      |
| Total                | 12.92 | 12.92 | 43.48 | 8.5776 | 23.39 | 106.56 |     |      |

From pages 1-6 of the Appendix A

#### Appendix A: Emissions Calculatior Storage Tanks Results from TANKS 4.0

Page 2 of 6 TSD App A

Company Name: Norfolk Southern Railway Company

Address, City IN Zip: Route 19 and Lusher Avenue, Elkhart, IN 46515

CP: 039-12839 Plt ID: 039-00548

Reviewer: Gurinder Saini
Date: October 20, 2000

|                     | Pounds per year |                |            |  |  |  |
|---------------------|-----------------|----------------|------------|--|--|--|
| Tank Capacity (gal) | Working Loss    | Breathing Loss | Total Loss |  |  |  |
|                     |                 |                |            |  |  |  |
| 1000000             | 298.15          | 12.02          | 310.17     |  |  |  |
| 1000000             | 298.15          | 12.02          | 310.17     |  |  |  |
| 330000              | 185.27          | 3.69           | 188.96     |  |  |  |
| 750000              | 298.15          | 7.84           | 305.99     |  |  |  |
|                     | 1115.29         |                |            |  |  |  |

Total (tons per year) 0.557645

#### Note:

The emissions are based on using Distillate fuel oil no.2 as stored liquid in place of Diesel.

This is because TANKS 4.0 does not contain properties of Diesel. Therefore alternate scenario is used.

# Appendix A: Emissions Calculations Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr) #4 Fuel Oil

Company Name: Norfolk Southern Railway Company

Address, City IN Zip: Route 19 and Lusher Avenue, Elkhart, IN 46515

CP: 039-12839 Plt ID: 039-00548

Reviewer: Gurinder Saini
Date: October 20, 2000

Heat Input Capacity Potential Throughput S = Weight % Sulfur MMBtu/hr kgals/year 0.5

8.034 502.698857

|                               | Pollutant |          |      |      |     |  |  |  |
|-------------------------------|-----------|----------|------|------|-----|--|--|--|
|                               | PM*       | SO2      | NOx  | VOC  | СО  |  |  |  |
| Emission Factor in lb/kgal    | 7.0       | 75       | 20.0 | 0.34 | 5.0 |  |  |  |
|                               |           | (150.0S) |      |      |     |  |  |  |
| Potential Emission in tons/yr | 1.8       | 18.9     | 5.0  | 0.1  | 1.3 |  |  |  |

#### Methodology

1 gallon of No. 4 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Bi

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file) \*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

## Appendix A: Emissions Calculations Sand Hoppers

Company Name: Norfolk Southern Railway Company

Address, City IN Zip: Route 19 and Lusher Avenue, Elkhart, IN 46515

CP: 039-12839
Plt ID: 039-00548
Reviewer: Gurinder Saini
Date: October 20, 2000

| <b>Emission Unit</b> | Annual Sand Usage (tons) | Emission Factor (lb/ton) | PM emissions (lb/year) | PM emissions (tons/year) |  |  |  |
|----------------------|--------------------------|--------------------------|------------------------|--------------------------|--|--|--|
| Sand Hopper1         | 1259                     | 3                        | 3777                   | 1.8885                   |  |  |  |
| Sand Hopper2         | 1259                     | 3                        | 3777                   | 1.8885                   |  |  |  |
|                      | Total                    |                          |                        |                          |  |  |  |

#### Methodology

PM emissions (lb/year) = Annual Sand Usage (tons)x Emission Factor (lb/ton) PM emissions (tons/year) = PM emissions (lb/year) / 2000 lbs/ton

Emission Factors are from AP 42, Tables 11.13-2 Fifth edition

Worst cast assume all PM to be PM10

#### Page 5 of 6 TSD App A

# Appendix A: Emission Calculations Internal Combustion Engines - Diesel Fuel Turbine (>250 and <600 HP) Reciprocating

Company Name: Norfolk Southern Railway Company

Address City IN Zip: Route 19 and Lusher Avenue, Elkhart, IN 46515

CP#: 039-12839
Plt ID: 039-00548
Reviewer: Gurinder Saini
Date: October 20, 2000

#### Emissions calculated based on output rating (hp)

Heat Input Capacity Potential Throughput Horsepower (hp) hp-hr/yr

710.4 6223104.0

|                               | Pollutant |        |        |        |        |        |  |
|-------------------------------|-----------|--------|--------|--------|--------|--------|--|
|                               | PM*       | PM10*  | SO2    | NOx    | VOC    | CO     |  |
| Emission Factor in lb/hp-hr   | 0.0022    | 0.0022 | 0.0021 | 0.0310 | 0.0025 | 0.0067 |  |
| Potential Emission in tons/yr | 6.85      | 6.85   | 6.38   | 96.46  | 7.82   | 20.79  |  |

#### Methodology

Potential Througput (hp-hr/yr) = hp \* 8760 hr/yr

Emission Factors are from AP42 (Supplement B 10/96), Table 3.3-2

Emission (tons/yr) = [Potential Throughput (hp-/hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton )

\*PM emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

#### Page 6 of 6 TSD App A

#### Appendix A: Emissions Calculations

#### Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)

#### #1 and #2 Fuel Oil

Emissions from the smaller furnaces and portable heaters

Company Name: Norfolk Southern Railway Company

Address, City IN Zip: Route 19 and Lusher Avenue, Elkhart, IN 46515

CP: 039-12839 Plt ID: 039-00548

Reviewer: Gurinder Saini
Date: October 20, 2000

Heat Input Capacity Potential Throughput S = Weight % Sulfur

MMBtu/hr kgals/year 0.5

8.212 513.836571

|                               | Pollutant |          |      |      |     |  |  |  |
|-------------------------------|-----------|----------|------|------|-----|--|--|--|
|                               | PM*       | SO2      | NOx  | VOC  | СО  |  |  |  |
| Emission Factor in lb/kgal    | 2.0       | 71       | 20.0 | 0.34 | 5.0 |  |  |  |
|                               |           | (142.0S) |      |      |     |  |  |  |
| Potential Emission in tons/yr | 0.5       | 18.2     | 5.1  | 0.1  | 1.3 |  |  |  |

#### Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Bi

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

\*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).